

**STIC Biotechnology Systems Branch****RAW SEQUENCE LISTING**  
**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/535,128C  
Source: TEWO  
Date Processed by STIC: 11/22/2006

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

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- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>) , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

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## Raw Sequence Listing Error Summary

### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER:

10/535, 128C

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos     The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length     The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering     The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4      Non-ASCII     The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length     Sequence(s)      contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"     A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)     . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7      Skipped Sequences  
    (OLD RULES)     Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence:  
                          (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                          (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
                          (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
                          This sequence is intentionally skipped  
                          Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)     Sequence(s)      missing. If intentional, please insert the following lines for each skipped sequence.  
                          <210> sequence id number  
                          <400> sequence id number  
                          000
- 9      Use of n's or Xaa's  
    (NEW RULES)     Use of n's and/or Xaa's have been detected in the Sequence Listing.  
                          Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
                          In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response     Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)
- 11      Use of <220>     Sequence(s)      missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules
- 12      PatentIn 2.0  
    "bug"     Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n/Xaa     "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/535,128C

DATE: 11/22/2006

TIME: 11:26:26

Input Set : A:\BU-0094.ST25.txt

Output Set: N:\CRF4\11222006\J535128C.raw

3 <110> APPLICANT: Collins, et. al  
5 <120> TITLE OF INVENTION: CIS/Trans Riboregulators  
7 <130> FILE REFERENCE: 0079571-0094  
9 <140> CURRENT APPLICATION NUMBER: 10/535,128C  
10 <141> CURRENT FILING DATE: 2005-05-16  
12 <160> NUMBER OF SEQ ID NOS: 59  
14 <170> SOFTWARE: PatentIn version 3.2  
16 <210> SEQ ID NO: 1  
17 <211> LENGTH: 11  
18 <212> TYPE: DNA  
19 <213> ORGANISM: Artificial  
21 <220> FEATURE:  
22 <223> OTHER INFORMATION: Consensus sequence  
24 <400> SEQUENCE: 1  
25 gccgaccaug c  
28 <210> SEQ ID NO: 2  
29 <211> LENGTH: 18  
30 <212> TYPE: DNA  
31 <213> ORGANISM: Artificial  
33 <220> FEATURE:  
34 <223> OTHER INFORMATION: Nuclear Acid sequence  
36 <400> SEQUENCE: 2  
37 aggagggttt ttaccaug  
40 <210> SEQ ID NO: 3  
41 <211> LENGTH: 19  
42 <212> TYPE: DNA  
43 <213> ORGANISM: Artificial  
45 <220> FEATURE:  
46 <223> OTHER INFORMATION: Cis-Repressive  
48 <400> SEQUENCE: 3  
49 ggacgcactg accgaattc  
52 <210> SEQ ID NO: 4  
53 <211> LENGTH: 20  
54 <212> TYPE: DNA  
55 <213> ORGANISM: Artificial  
57 <220> FEATURE:  
58 <223> OTHER INFORMATION: Cis-Repressive  
60 <400> SEQUENCE: 4  
61 ctacctttct cctctttaat  
64 <210> SEQ ID NO: 5  
65 <211> LENGTH: 18  
66 <212> TYPE: DNA  
67 <213> ORGANISM: Artificial

Does Not Comply  
Corrected Diskette Needed  
Cp9-1,2,3,4,5

11

What is the source  
of genetic material?  
See glem 11 on  
error summary  
sheet.

20

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/535,128C

DATE: 11/22/2006

TIME: 11:26:26

Input Set : A:\BU-0094.ST25.txt

Output Set: N:\CRF4\11222006\J535128C.raw

69 <220> FEATURE:  
70 <223> OTHER INFORMATION: Cis-Repressive  
72 <400> SEQUENCE: 5  
73 ttctctagtc ctccttat  
76 <210> SEQ ID NO: 6  
77 <211> LENGTH: 19  
78 <212> TYPE: DNA  
79 <213> ORGANISM: Artificial  
81 <220> FEATURE:  
82 <223> OTHER INFORMATION: Cis-Repressive  
84 <400> SEQUENCE: 6  
85 ctacctttct cctctagga  
88 <210> SEQ ID NO: 7  
89 <211> LENGTH: 19  
90 <212> TYPE: DNA  
91 <213> ORGANISM: Artificial  
93 <220> FEATURE:  
94 <223> OTHER INFORMATION: Cis-Repressive  
96 <400> SEQUENCE: 7  
97 ctacctatct gctcttgaa  
100 <210> SEQ ID NO: 8  
101 <211> LENGTH: 19  
102 <212> TYPE: DNA  
103 <213> ORGANISM: Artificial  
105 <220> FEATURE:  
106 <223> OTHER INFORMATION: Cis-Repressive  
108 <400> SEQUENCE: 8  
109 ctaccattca cctcttgga  
112 <210> SEQ ID NO: 9  
113 <211> LENGTH: 16  
114 <212> TYPE: DNA  
115 <213> ORGANISM: Artificial  
117 <220> FEATURE:  
118 <223> OTHER INFORMATION: Cis-Repressive  
120 <400> SEQUENCE: 9  
121 ctaccattca cctgga  
124 <210> SEQ ID NO: 10  
125 <211> LENGTH: 7  
126 <212> TYPE: DNA  
127 <213> ORGANISM: Artificial  
129 <220> FEATURE:  
130 <223> OTHER INFORMATION: Cis-Repressive  
132 <400> SEQUENCE: 10  
133 tttgggt  
136 <210> SEQ ID NO: 11  
137 <211> LENGTH: 15  
138 <212> TYPE: DNA  
139 <213> ORGANISM: Artificial  
141 <220> FEATURE:

18  
19  
19  
19  
16  
7

*Same Error*

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/535,128C

DATE: 11/22/2006

TIME: 11:26:26

Input Set : A:\BU-0094.ST25.txt

Output Set: N:\CRF4\11222006\J535128C.raw

142 <223> OTHER INFORMATION: Cis-Repressive  
144 <400> SEQUENCE: 11  
145 attaaagagg agaaa 15  
148 <210> SEQ ID NO: 12  
149 <211> LENGTH: 42  
150 <212> TYPE: DNA  
151 <213> ORGANISM: Artificial  
153 <220> FEATURE:  
154 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs  
156 <400> SEQUENCE: 12  
157 ggagcactga ccgaattcat taaagaggag aaaggtacca tg 42  
160 <210> SEQ ID NO: 13  
161 <211> LENGTH: 51  
162 <212> TYPE: DNA  
163 <213> ORGANISM: Artificial  
165 <220> FEATURE:  
166 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs  
168 <400> SEQUENCE: 13  
169 ctacctttct cctctttaat ttgggtatt aaagaggaga aaggtaccat g 51  
172 <210> SEQ ID NO: 14  
173 <211> LENGTH: 47  
174 <212> TYPE: DNA  
175 <213> ORGANISM: Artificial  
177 <220> FEATURE:  
178 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs  
180 <400> SEQUENCE: 14  
181 ctctagtcct ccttattttg ggtattaaag aggagaaagg taccatg 47  
184 <210> SEQ ID NO: 15  
185 <211> LENGTH: 50  
186 <212> TYPE: DNA  
187 <213> ORGANISM: Artificial  
189 <220> FEATURE:  
190 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs  
192 <400> SEQUENCE: 15  
193 ctacctttct cctctaggat ttgggtatta aagaggagaa aggtaccatg 50  
196 <210> SEQ ID NO: 16  
197 <211> LENGTH: 50  
198 <212> TYPE: DNA  
199 <213> ORGANISM: Artificial  
201 <220> FEATURE:  
202 <223> OTHER INFORMATION: Nuclear Acid sequence  
204 <400> SEQUENCE: 16  
205 ctacctatct gctcttgaat ttgggtatta aagaggagaa aggtaccatg 50  
208 <210> SEQ ID NO: 17  
209 <211> LENGTH: 50  
210 <212> TYPE: DNA  
211 <213> ORGANISM: Artificial  
213 <220> FEATURE:  
214 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs

*same error*

## RAW SEQUENCE LISTING

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TIME: 11:26:26

Input Set : A:\BU-0094.ST25.txt

Output Set: N:\CRF4\11222006\J535128C.raw

216 <400> SEQUENCE: 17  
217 ctaccattca cctcttggat ttgggtatta aagaggagaa aggtaccatg 50  
220 <210> SEQ ID NO: 18  
221 <211> LENGTH: 50  
222 <212> TYPE: DNA  
223 <213> ORGANISM: Artificial  
225 <220> FEATURE:  
226 <223> OTHER INFORMATION: Cis-Repressive RNA Constructs  
228 <400> SEQUENCE: 18  
229 ctaccattca cctcttggat ttgggtatta aagaggagaa aggtaccatg 50  
232 <210> SEQ ID NO: 19  
233 <211> LENGTH: 70  
234 <212> TYPE: DNA  
235 <213> ORGANISM: Artificial  
237 <220> FEATURE:  
238 <223> OTHER INFORMATION: Construct Sequence  
240 <400> SEQUENCE: 19  
241 acacccaaat taaagaggag aaaggtagtg gtggttaatg aaaattaact tactactacc 60  
243 ttttcttaga 70  
246 <210> SEQ ID NO: 20  
247 <211> LENGTH: 62  
248 <212> TYPE: DNA  
249 <213> ORGANISM: Artificial  
251 <220> FEATURE:  
252 <223> OTHER INFORMATION: Construct Sequence  
254 <400> SEQUENCE: 20  
255 acgcccgaat aaggaggata gagtggtggt taatgaaaat taacttacta cttagtttta 60  
257 ga 62  
260 <210> SEQ ID NO: 21  
261 <211> LENGTH: 69  
262 <212> TYPE: DNA  
263 <213> ORGANISM: Artificial  
265 <220> FEATURE:  
266 <223> OTHER INFORMATION: Construct Sequence  
268 <400> SEQUENCE: 21  
269 acacccaaat cctagggaga atggtagtgg tgggttaatga aaattaactt actactactt 60  
271 tttcataga 69  
274 <210> SEQ ID NO: 22  
275 <211> LENGTH: 67  
276 <212> TYPE: DNA  
277 <213> ORGANISM: Artificial  
279 <220> FEATURE:  
280 <223> OTHER INFORMATION: Construct Sequence  
282 <400> SEQUENCE: 22  
283 acacccaaat tatgagcaga ttggtagtgg tgggttaatga aaattaactt actactactt 60  
285 tcttaga 67  
288 <210> SEQ ID NO: 23  
289 <211> LENGTH: 71  
290 <212> TYPE: DNA

*Same Error*

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/535,128C

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TIME: 11:26:26

Input Set : A:\BU-0094.ST25.txt  
Output Set: N:\CRF4\11222006\J535128C.raw

291 <213> ORGANISM: Artificial  
293 <220> FEATURE:  
294 <223> OTHER INFORMATION: Construct Sequence  
296 <400> SEQUENCE: 23  
297 acccaaatcc aggaggtgat tggtagtggt ggtaaatgaa aattaactta ctactaccat 60  
299 atatctctag a 71  
302 <210> SEQ ID NO: 24  
303 <211> LENGTH: 71  
304 <212> TYPE: DNA  
305 <213> ORGANISM: Artificial  
307 <220> FEATURE:  
308 <223> OTHER INFORMATION: Construct Sequence  
310 <400> SEQUENCE: 24  
311 acccaaatcc aggaggtgaa tggtagtggt ggtaaatgaa aattaactta ctactaccat 60  
313 atatctctag a 71  
316 <210> SEQ ID NO: 25  
317 <211> LENGTH: 71  
318 <212> TYPE: DNA  
319 <213> ORGANISM: Artificial  
321 <220> FEATURE:  
322 <223> OTHER INFORMATION: Construct Sequence  
324 <400> SEQUENCE: 25  
325 acccaaatcc aagaggtgat tggtagtggt ggtaaatgaa aattaactta ctactaccat 60  
327 atatctctag a 71  
330 <210> SEQ ID NO: 26  
331 <211> LENGTH: 76  
332 <212> TYPE: DNA  
333 <213> ORGANISM: Artificial  
335 <220> FEATURE:  
336 <223> OTHER INFORMATION: Construct Sequence  
338 <400> SEQUENCE: 26  
339 acccaaatcc aaagaggtga atggtaagtg ggtgggtaat gaaaattaac ttactactac 60  
341 catatattct ctaaga 76  
344 <210> SEQ ID NO: 27  
345 <211> LENGTH: 71  
346 <212> TYPE: DNA  
347 <213> ORGANISM: Artificial  
349 <220> FEATURE:  
350 <223> OTHER INFORMATION: Construct Sequence  
352 <400> SEQUENCE: 27  
353 acccaaatcc aggaggtgat tggtagtggt ggtaaatgaa aattaactta ctaaaatcgg 60  
355 acatctctag a 71  
358 <210> SEQ ID NO: 28  
359 <211> LENGTH: 75  
360 <212> TYPE: DNA  
361 <213> ORGANISM: Artificial  
363 <220> FEATURE:  
364 <223> OTHER INFORMATION: Construct Sequence  
366 <400> SEQUENCE: 28

*same error*

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 11/22/2006  
PATENT APPLICATION: US/10/535,128C      TIME: 11:26:27

Input Set : A:\BU-0094.ST25.txt  
Output Set: N:\CRF4\11222006\J535128C.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27  
Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51  
Seq#:52,53,54,55,56,57,58,59

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## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/535,128C

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Output Set: N:\CRF4\11222006\J535128C.raw